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Best obd2 scanner that can program keys

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You're prepared for work, but your morning isn't quite starting off right after discovering that your car key won't work. To make matters worse, it doesn't even start your car. This is frustrating, especially since you should have programmed a new key by now in case the original one gets lost or misplaced. So, how do you go about programming a new key for your car? The best tool to use in this situation is an OBD2 scanner with a key programmer. Some auto diagnostic tools come equipped with this feature while others do not. In this article, we will explore the top options available to both professionals and DIY enthusiasts. A standout choice in this category is the Nexpeak K1 Ultra OBD2 scanner. This device helps save time and money on car key programming by allowing you to easily program new keys for your vehicle. It also comes with a range of features such as reading and clearing trouble diagnostic codes for various car systems. Another notable option is the Autel MK808BT auto diagnostic tool, which offers excellent diagnosing capabilities along with an impressive list of features including IMMO key programming functionality, oil reset options, and more. Introducing cutting-edge Auto VIN technology for effortless vehicle navigation. Key features include: * Wireless connectivity to your vehicle's 7-inch LCD touchscreen * 32GB Storage capacity * Automatic detection of your vehicle via Auto VIN scan feature * Long-lasting battery life with 5000mAh power * Supports up to 10 languages This OBD2 scanner boasts impressive capabilities, such as: * Identifying over 80 American, Asian, and European vehicle makes * Disabling lost car keys and programming new ones * Reading and clearing diagnostic trouble codes * Diagnosing entire car systems * Performing service functions like oil reset and tire pressure monitoring However, some limitations apply: * No bi-directional function available * Not all vehicles are compatible with service functions Another top-notch OBD2 scanner is the Autel MaxiIM IM508, which offers: * Remote learning capabilities * 5000mAh Battery life * 32GB Storage capacity This tool excels in its ability to diagnose all car systems and perform advanced service functions like oil reset, brake bleeding, and airbag reset. The Autel MaxiIM IM508 Package includes a range of accessories, including cables, adaptors, and a carrying case. For those seeking the best OBD2 scanner with key programmer capabilities, consider options like Thinkcar Thinktool Pros or Xtool X100 Pro 2. These tools offer features such as key programming, ABS bleeding, and steering angle reset, making them valuable additions to any mechanic's toolkit. 1. Car programmers for programming keys are important tools that mechanics must have in their repair kits. 2. A range of diagnostic functions are included with many car programmers. 3. Diagnostic tools such as OBD scanners can also be used to program keys. 4. Mechanics use these programmes for a variety of repairs and to improve key function. 5. Car programmers help to speed up the process of programming a new key. 6. Some programmes have additional features like compatibility with different systems. 7. These programmes are useful tools that mechanics must have in their repair kits. The Autool XTool X100 PAD Tablet is a popular car key programmer suitable for both professionals and home mechanics. It offers an affordable price point and various features, including: Fast Key Programming: The device has a faster processing speed than its predecessors, allowing quick reprogramming of new keys and support for adapter functions like chip programming and PIN code reading. Remote Key Programming: This feature enables remote key programming without the need for the actual key, making it particularly useful for professional mechanics and car dealerships. Diagnostic Capabilities: The device supports all OBD2 diagnostic functions, including trouble code clearing, freeze frame data analysis, and emissions test data review. Reset Functions: The X100 PAD offers various special functions for repairs beyond new keys, such as resetting oil service and timing belt lights, EPB reset, battery reset, TPMS reset, and calibration of the steering angle and throttle body. Intuitive Navigation: The 7-inch touchscreen features an Android operating system and a 1.6 GHz quad core processor, providing high-performance and an easy-to-read screen with an intuitive menu layout. Free Updates: Two years of free updates are included in the price, allowing users to stay up-to-date with the latest software through the on-board Wi-Fi. While the XTool X100 PAD is a versatile tool, it has some drawbacks. It may not support all functions for certain vehicles and is only compatible with specific automotive brands such as Renault, KIA, Peugeot, Jeep, Toyota, Lexus, Ford, BMW, and Volvo. The Autel MaxiLM IM508 Auto Key Programmer is an advanced tool that won't work on non-OBD systems and can't reprogram keys without OBD. It's one of the most comprehensive tools available, but it comes with a high price tag. The device has various key features, including comprehensive key programming, remote learning, ECU adaptation, and IMMO system resetting. It also supports full diagnostics for over 80 manufacturers, allowing you to diagnose and correct issues with electronic systems. Service functions include ABS bleed, SAS calibration, DPF regeneration, and dash light reset. The Autel IM508 has smart modes that guide technicians through IMMO functions or offer expert control. However, its high cost is a major drawback, making it a tool mostly suitable for professionals. #### The Xtool X100 Pad2 Pro offers advanced key programmer capabilities with a mid-range price tag, making it a worthwhile investment in a professional setting due to its extensive special features and functions. A significant upgrade from the original X100 Pad, the X100 Pad2 Pro includes: * Full key programming power: It supports key reading and creation, remote learning, key fob cloning, and IMMO reprogramming and reset. * Enhanced diagnostic capabilities: The tool features 4-system diagnosis, allowing users to read codes from the ABS, SRS, and transmission systems in addition to engine system analysis. * Broader compatibility: It boasts a wider range of adapters and supports more manufacturers' models, including newer ones like the C-class and E-class Mercedes. The X100 Pad2 Pro also comes with an interactive interface that can be customized to meet individual needs. The FICBOX 4D Chip Keymaker/Programmer is a budget-friendly tool that serves as an excellent option for home mechanics who own Toyota or Lexus vehicles with the 4D chip. This key programmer allows users to create new keys within approximately 20 seconds without disrupting the car's anti-theft protocols. Some notable features of this device include: * **Affordable Key Programming**: The FICBOX 4D Smart Key Maker can program keys for Toyota and Lexus vehicles in a relatively quick time frame. * **Great for Home Mechanics**: This tool is specifically designed for home mechanics who work with these vehicle models, providing an efficient solution without the need for extensive service, diagnostic, or programming functions. However, it's essential to be aware of the limitations that come with this device: * **Limited Compatibility**: The FICBOX Keymaker only supports Toyota and Lexus vehicles made with a 4D chip, which were manufactured between 1996-2008. * **No IMMO or ECU Programming Functions**: Due to its low price point, this tool does not offer the ability to perform ECU or IMMO programming functions. On the other hand, the Autel MP808K Key Programmer is a mid-range device that offers efficient key programming capabilities. It supports ECU coding and has a range of features that make it beneficial for both professionals and experienced home mechanics. Some notable features of the Autel MP808K include: * **Efficient Key Programming**: The Autel MP808K can effectively program key fobs for various vehicle models. * **OEM-Level Diagnostics**: This device provides full OBD2 support, allowing users to perform bi-directional tests and diagnose mechanical issues. * **Full Service Functions**: Among its 23 service functions are DPF regeneration, ABS bleeding, and other capabilities that make it an all-in-one solution. The Autel MP808K stands out as a top-notch diagnostic scanner with key programming capabilities, but it falls short in dedicated key-making functions due to its relatively affordable price point. Its processing speed is impressive, especially considering its cost, but it lacks robust IMMO functions and sometimes fails to support service and key programming for all vehicle manufacturers. However, it effectively serves users working on Dodge, Toyota, Suzuki, Acura, Honda, and Nissan vehicles. In contrast, the Autel MaxiIM IM608 Key Programmer is geared towards professionals, boasting a wider array of features, including comprehensive OEM-level diagnostics, robust special functions such as oil reset and EPB maintenance, and guided key programming with a Smart Mode. The IM608 also boasts an intuitive 10.1” touchscreen interface with both Smart and Expert modes, along with a built-in camera and flashlight for added convenience. Its price tag is higher at upwards of $3,000, but its capabilities make it a valuable tool for advanced diagnostics and key programming tasks. The Autel MaxiIm IM608 and Carrfan CK-100 are two car key programmers with different features and prices. The Autel MaxiIm IM608 has a long list of special features but comes with drawbacks such as being outside the budget for hobbyists and DIY-ers, its bulky design requiring more power, and its high price ranging from $3,000-$3,500. In contrast, the Carrfan CK-100 is a simple tool designed solely for car key programming and deactivating, making it an affordable option. It has efficient key programming capabilities, a portable design, and guided navigation. However, it lacks diagnostic or service functions and has limited compatibility with only 7 manufacturers. This makes it suitable for home garages and locksmiths but not ideal for professional mechanics or those requiring advanced features. Car manufacturers like Chrysler, VAG, GM, Kia, Nissan, and Hyundai are compatible with various key programmers. One important thing to consider is whether you can program a car key yourself. With a compatible programmer, anyone can reprogram a car transponder key, making it possible to lock/unlock the vehicle, open the trunk, and even start the engine. However, there might be instances where your keys need to be reprogrammed, such as when they stop responding due to water damage or age. Typically, key programmers come with a price tag, but finding deals can help make them more affordable. Noting that some car owners find it difficult to choose the right OBD2 scanner for their vehicle, there are several essential features one should look out for, including compatibility and the ability to read fault codes. In order to simplify this process, our buying guide offers helpful insights into selecting a reliable OB2 scanner for daily use. In particular, we discuss our top 10 picks among the best OBD2 scanners on the market, focusing on essential functionalities that significantly impact the quality of each model. Our rankings take into account unique features, compatibility, strengths, and weaknesses, providing readers with an informed decision-making process. The best odb2 scanners are evaluated based on compatibility, user-friendliness and utility. We provide pros and cons for each tool for full transparency. Our top 3 choices include FIXD OBD2 Scanner - Editor's Pick **Export Data and Compatibility** The FIXD scanner allows for exporting log files to a computer and supports major OBDII formats, including Volkswagen, Chrysler, GM, BMW, Ford, and Nissan sold in North America. It also runs on both iOS and Android devices and is free to download. **Pros of FIXD Scanner** - Offers instant accurate data (engine temp, pressure, fuels usage, etc.) - Takes a snapshot when a code is stored (Freeze Frame) - Reads and clears CEL codes - Up to 50% discount available at the official website **Cons of FIXD Scanner** - No support for camshaft timing or reprogramming FOBs **Autel AL319 OBD Reader Review** The Autel AL319 is a user-friendly, 'Plug and play' device suitable for beginners. It works on all 1996 and newer vehicles (OBD II & CAN) - domestic and import, with various language features. **Features of Autel AL319** - Diagnoses and fixes issues quickly - Checks engine light codes and clears them - Shows live PCM data to identify faulty parameters - Freeze frames data provides reasons for car breakdowns **Print Data Functionality** With the AL319, you can print code definitions for professional advice or personal research. **Corded Device and Warranty** The Autel AL319 has a short cord but comes with a 1-year warranty. It supports free software updates and compatibility with OBD2 1996 and newer makes, CAN support vehicles, EOBD vehicles as well. **FOXWELL NT301 Full OBDII Scanning Tool Review** The FOXWELL NT301 is an upgraded version of the basic car obdii diagnosing scanner, supporting global customers. It has distinctive features, including no battery requirement for direct OBDII car charging. FOXWELL NT301 is an exceptional OBD2 scan tool offering impressive functions. It displays code definitions on its TFT screen, making it graphically superior. Additionally, it erases DTCs (engine fault codes). The scanner also performs common functions like checking the CEL and MIL lights, as well as VIN data. The FOXWELL NT301 is compatible with multiple code requests, including manufacturer-specific, generic, and pending codes. It can perform engine diagnoses such as Fuel Trim, Engine Coolant Temp, I/M Readiness, Freeze Frames, Fuels Pressure, ECT, and reads live O2 Sensor data. This scanner complies with 1996 and later US-based OBD2 standards and also supports 2001 and newer petrol vehicles in Europe. It uses a diagnosing cable to connect to the vehicle's CPU. FOXWELL NT301 comes with a few benefits, including fast charging when the ignition is on and a comprehensive one-year money-back guarantee and lifetime free updates. The scanner provides on-screen DTC definitions that highlight the exact issue, saves data logs for printing, and offers detailed diagnostics for all systems, including ABS, engine codes, etc. On the other hand, some drawbacks include limited availability due to high demand. Based on the vehicle make, this OBD2 compatible device supports various brands such as Acura, Audi, Ford, and more. The built-in Android 4.4.4 allows for quick query processing. It works with an Android device and comes with a charger, providing a one-year warranty. The AD310 is a user-friendly device that's great for anyone due to its fast speed. It can check the engine light, I/M monitor readiness testing, and turn off the MIL (check engine light). This OBD II scanner has four easy-to-use buttons. The AD310 also lets you do smog checks, but it doesn't offer advanced features like SRS or transmission systems. It's compatible with 12V batteries and works on US makes from 1996 and newer. Pros of the AD310 include a 3-year warranty and multilingual display. Cons are that the display might not stay clear sometimes and the device needs to be reset. On the other hand, the Foxwell NT201 OBDII reader is an essential tool for mechanics or car owners. It allows you to verify repairs, check State Emission Monitor Statuses, and solve basic engine issues quickly and efficiently. The NT201 has a 2.4" TFT color screen and hot key for I/M readiness testing and read/clear DTCs. The Foxwell NT201 is far better than many scanners as it offers almost all the basic functioning and complies with OBD2, EOBD, JOBD, and CAN cars including trucks, SUVs, and minivans. Its 3 LED indicators show the vehicle's condition: green means good, yellow indicates a solved fault, and red light shows a serious problem. The NT201 is very easy to use, connects via DLC socket, has a built-in speaker, and comes with a 3-year warranty and multilingual display. It complies with OBD2/EOBD/JOBD & CAN protocols and supports anything 1996 and newer. The ANCEL AD410 OBDII Scanner is a high-performance device that offers real-time data from ECUs, engine temperature, and oxygen sensor readings. It features a user-friendly interface and supports multiple languages. This product provides advanced testing capabilities, including emission and oxygen sensoring, and allows for smog checks. Additionally, it comes with lifetime free software updates, but only compatible with PC connections via cable. The Autel MaxiLink ML619 OBD2 Scan Tool is another top-notch option that quickly diagnoses issues on vehicles. It's ideal for detecting faults in ABS, SRSs, airbag systems, and performing OBDII diagnoses. This handheld scanner comes equipped with a USB cable, 16GB micro SD card, and a nylon cover. Its advanced features include reading and clearing pending codes, checking and clearing CEL codes, and displaying drive cycle readiness. The Autel Maxilink ML619 is an OBD2 reader that provides detailed information about a vehicle's engine, transmission, and other systems. It is compatible with many popular car brands, including Ford, GM, Honda, and more, as well as vehicles from 1996 and newer models. However, it does not stream live ABS sensor signals. OBD2 scanners offer advanced features such as fuel pressure monitoring, DPF temperature tracking, smog sensor data, and oxygen sensor readings. These devices provide comprehensive repair reports, covering ABS, SRS, oil changes, misfire counts, and initialization BMC coding. Additionally, they support key coding, ECU programming, and oils reset. Key considerations when choosing an OBD2 scanner include Bluetooth capabilities, free lifetime updates, and warranty. These features enhance the overall convenience and value of the device. Best practices for using OBD2 scanners involve understanding how they work, linking the computer database to diagnose systems, detecting DTCs (diagnostic trouble codes), and identifying potential problem areas. While modern vehicles can self-correct issues, some problems require external assistance. If the check engine or malfunction light turns on, an OBD2 scanner helps decode errors, enabling DIY repairs. In the long run, owning an OBD2 diagnostic scan tool saves time and money at the mechanic. Even basic models pinpoint issues, allowing for simple repairs.